Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. - 15. (cancelled)

16. (previously presented) A method for delivering a plurality of stent segments to a treatment site, the method comprising:

positioning a distal portion of a stent delivery catheter device at the treatment site;

axially moving a first sheath and a second sheath of the catheter device to expose at least part of a radially expandable member on the catheter device and at least one of a plurality of separately deployable stent segments mounted on the expandable member; and

radially expanding only the exposed part of the expandable member to deploy the one stent segment at the treatment site while a second stent segment of the plurality is retained unexpanded on the catheter device disconnected from the first stent segment .

17. (original) A method as in claim 16, further comprising moving the first sheath again to further expose the expandable member to deploy at least one additional stent segment.

18. (original) A method as in claim 17, wherein the at least one additional stent segment has a length different than the at least one stent segment.

19. (original) A method as in claim 16, further comprising restraining a first portion of the expandable member from which at least one stent segment has been deployed while expanding a second portion of the expandable member to deploy at least one additional stent segment.

20. (original) A method as in claim 19, wherein restraining the first portion of the expandable member comprises moving a second sheath of the catheter device over the first portion of the expandable member from which at least one stent segment has been deployed.

21. (original) A method as in claim 19, wherein restraining the first portion of the expandable member comprises retracting a portion of the expandable member from which at least one stent segment has been deployed within the catheter device.

22. (previously presented) A method for delivering a plurality of stent segments to treatment sites in a body lumen of a patient, the method comprising:

positioning a distal portion of a stent delivery catheter device in the body lumen, the delivery catheter having a plurality of stent segments mounted thereon;

moving at least a first sheath of the catheter device to deploy a first selected number of stent segments at a first treatment site;

repositioning the delivery catheter to a second treatment site in the body lumen spaced apart from the first treatment site without removing the delivery catheter from the patient; and

moving at least the first sheath to deploy a second selected number of stent segments at the second treatment site, wherein the first selected number is different than and unconnected to the second selected number.

23. (original) A method as in claim 22, further comprising:

expanding a first portion of an expandable member of the stent delivery device to deploy the first selected number of stent segments; and

expanding a second portion of the expandable member to deploy the second selected number of stent segments.

24. (original) A method as in claim 23, further comprising moving a second sheath to constrain the first portion of the expandable member before expanding the second portion of the expandable member.

25. (withdrawn) A method as in claim 22, wherein the stent segments are self-expanding so that moving the first sheath exposes the self-expanding stents to allow them to expand and deploy.

26. (original) A method as in claim 25, further including moving a second sheath to selectively deploy the second selected number of stent segments.

27. (withdrawn) A method as in claim 22, wherein the first selected number of stents have a first expanded diameter, and the second selected number of stents have a second expanded diameter different than the first expanded diameter.

28. (withdrawn) A method as in claim 22, wherein the first selected number of stents have a first geometry, and the second selected number of stents have a second geometry different than the first geometry.